SPST304

Course Summary

Course : SPST304 **Title :** National Space Organization
Length of Course : 8
Prerequisites : SPST200, SPST300 **Credit Hours :** 3

Description

Course Description: This course addresses the United States organization for space operations, to include exploration, satellite operations, military purposes, and research and development. Included in the organization will be the linkages between governmental and non-governmental enterprises in or dealing with space. The course will also briefly address comparative organizations for space as witnessed in other industrialized nations. (Prerequisite: SPST200 or SPST300).

Course Scope:

Objectives

After successfully completing this course, you will be able to:

- Comprehension
    - Explain how NASA and the supporting agencies intend to meet future space endeavors.
    - Explain the importance of military use in space and how it supports the goals of the National Security.
    - Describe the launch vehicles, satellites, and ground systems utilized by NASA and the U.S. space program.
- Application
    - Based on NASAs Research, describe in detail potential space related research and development innovations.
- Analysis
    - Analyze how non-governmental support and competition contribute to the success of the U.S. space organization.
    - Examine the events surrounding the transformation from NACA to NASA.
- Evaluation
    - Critique the effectiveness of the military and political catalyst served for the space race and the formation of NASA.

Outline

Week 1:

Readings

Online: A Brief History of NASA

Online: History of Rocketry

Online: NASA History Office

Lessons: Graham - Chapters 7-10, 12-18, 20

Assignment

Forum Post #1

Week 2:

Readings

Lessons: Graham - Chapters 11 and 21

Lessons: Figliola (U.S. Space Programs) U.S. Government Civilian Space Programs NASA's Organizational Chart

Online: NASA Organizational Index

Online Library: Defining NASA : Chapters 1-2

Assignment

Forum Post #2

Test #1 Due

Week 3:

Readings

Online: NASA Organizational Index

Online: Boeing

Online: Lockheed Martin

Online: Orbital Sciences Corporation

Online: Long List of Companies

Assignment

Forum Post #3

Test #2 Due

Week 4:

Readings

Lessons: Behrens (Space Launch Vehicles)

Lessons: Smith (NASA?s Space Shuttle Program)

Lessons: Graham - Chapter 28

Lessons: Figliola (U.S. Military Space Programs)

Lessons: Figliola (U.S. Space Programs)? Military Space Programs

Course Folder: Smith (Military Space Programs)

Online: Space Launch Vehicles (Global Security)

Online: Space Facilities - United States

Online Library: Defining NASA : Chapters 3-4

Assignment

Forum Post #4

Test #3 Due

Week 5:

Readings

Lessons: Graham - Chapters 29-30

Lessons: Figliola (U.S. Space Programs)? Military Space Issues Section

Lessons: National Security Strategy of the United States of America

Lessons: Report of the Commission to Assess United States National Security Space Management and Organization

Lessons: Graham - Chapter s 24-27

Online: Scaled Composites

Online: Space Tourism

Online: Ansari x-prize

Assignment

Forum Post #5

Test #4 Due

Week 6:

Readings

Lessons: Rest of the World? PDFs

Lessons: NASAs Vision for Space Exploration

Lessons: NASAs Exploration Systems Interim Strategy

Lessons: Figliola (U.S. Space Programs) ? Developing New Space Launch Vehicles Section

Lessons: Smith (Space Exploration: Issues)

Online: NASA Exploration Systems

Online: Federal Space Agency

Online Library: Defining NASA : Chapters 5-6

Assignment

Forum Post #6

Test #5 Due

Week 7:

Readings

Lessons: Rest of the World? PDFs

Online: ESA Portal

Online: JAXA

Assignment

Forum Post #7

Research Paper Due

Week 8:

Readings

Lessons: Figliola (U.S. Space Programs) International Cooperation and Competition Section

Lessons: Smith (Chinas Space Program)

Online: Chinese Space Activities

Online: World Space Guide (FAS)

Assignment

Forum Post #8

Final Exam Due

Evaluation

Discussion Board/Class Participation

25 percent of your course grade is earned through participation with other students in the Discussion Board area of the classroom. Your knowledge of readings will be reflected in your ability to actively participate and discuss key course concepts. Your initial response must be at least 250 words, well written and grammatically correct to receive full credit. Student responses should be at least 100 words. Note: You must also comment on at least 3 other student's posting.

Test

The quizzes make up 25 percent of your overall course grade. Questions are created from your readings and will require you to have previously read the reading assignments in order to comprehend and correctly respond. Quizzes must be taken in order and must be done within one week of the assigned week in the syllabus. Grades on quizzes turned in late will be reduced by 50-percent per week.

Final Exam

The final exam covers the entire course (worth 25% of your course grade). Note: This will be due at the end of Week 8.

Research Paper

You must choose a foreign space organization/agency for your research paper. Your paper must be at least 15 pages long (not including cover and works cited pages) and include, but is not limited to your chosen country's exploration programs, satellite programs, military programs, and research and development facilities. Note: This will be due at the end of Week 7.

Grading:

Name	Grade %

Materials

Book Title: Defining NASA : Historical Debate over the Agency's Mission-E-book available in the APUS Online Library

Author: Kay, W.D.

Publication Info: State University of New York Press

ISBN: 9780791463826

Book Title: To find the library e-book(s) req'd for your course, please visit http://apus.libguides.com/er.php to locate the eReserve by course #. You must be logged in to eCampus first to access the links.

Author: N/A

Publication Info: N/A

ISBN: N/A

Course Resources

Behrens, Carl E. 2006. Space Launch Vehicles: Government Activities, Commercial Competition, and Satellite Exports. Washington: CRS Issue Brief, Resources, Science, and Industry Division. IB93062.

Figliola, Patricia M. 2006. U.S. Military Space Programs: An Overview of Appropriations and Current Issues. Washington: CRS Issue Brief, Resources, Science, and Industry Division. RL33608.

Figliola, Patricia M., Behrens, C. E., and Morgan, D. 2006. U.S. Space Programs: Civilian, Military, and Commercial. Washington: CRS Issue Brief, Resources, Science, and Industry Division. IB92011.

Graham, John F. 1995. Space Exploration: From Talisman of the Past to Gateway for the Future.

NASA. 2004. Exploration Systems Interim Strategy.

NASA. 2004. The Vision for Space Exploration.

Smith, Marcia S. 2005. China's Space Program: An Overview. Washington: CRS Issue Brief, Resources, Science, and Industry Division. RS21641.

Smith, Marcia S. 2006. Military Space Programs: Issues Concerning DOD's SBIRS and STSS Programs. Washington: CRS Issue Brief, Resources, Science, and Industry Division. RS21148.

Smith, Marcia S. 2006. NASA's Space Shuttle Program: The Columbia Tragedy, the Discovery Mission, and the Future of the Shuttle. Washington: CRS Issue Brief, Resources, Science, and Industry Division. RS21408.

Smith, Marcia S. 2006. Space Exploration: Issues Concerning the Vision for Space Exploration. Washington: CRS Issue Brief, Resources, Science, and Industry Division. RS21720.

U.S. President. 2002. The National Security Strategy of the United States.

Web-based Readings

Air University. 2007. Air University National Space Studies Center, Air University online. Home page on-line. Available from http://space.au.af.mil/orgs.htm, Internet.

FAS. 2004. Military Space, FAS online. Home page on-line. Available from http://www.fas.org/spp/military/index.html, Internet.

FAS. 2007. World Space Guide, FAS online. Home page on-line. Available from http://www.fas.org/spp/guide/index.html, Internet.

Global Security. 2007. Military Space Programs, Global Security online. Home page on-line. Available from http://www.globalsecurity.org/space/systems/index.html, Internet.

Global Security. 2006. Space Launch Vehicles, Global Security online. Home page on-line. Available from http://www.globalsecurity.org/space/systems/launch.htm, Internet.

In addition to the required course texts, the following public domain web sites are useful. Please abide by the university's academic honesty policy when using Internet sources as well. Note web site addresses are subject to change.

NASA. 2005. A Brief History of NASA, NASA online. Home page on-line. Available from http://www.hq.nasa.gov/office/pao/History/factsheet.htm, Internet.

NASA. 2007. NASA Exploration Systems, NASA online. Home page on-line. Available from http://www.exploration.nasa.gov, Internet.

NASA. 2007. NASA History Office, NASA online. Home page on-line. Available from http://history.nasa.gov, Internet.

NASA. 2007. NASA Organizational Index, NASA online. Home page on-line. Available from http://www.nasa.gov/about/highlights/OrganizationIndex.html, Internet.

Space.com, 2007. Space Tourism, Space.com online. Home page on-one. Available from http://www.space.com/space-tourism/, Internet.

Spaceline. 2000. History of Rocketry, Spaceline online. Home page on-line. Available from http://www.spaceline.org/rockethistory.html, Internet.

Course Guidelines

Citation and Reference Style

- Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format.

Tutoring

- Tutor.com offers online homework help and learning resources by connecting students to certified tutors for one-on-one help. AMU and APU students are eligible for 10 free hours* of tutoring provided by APUS. Tutors are available 24/7 unless otherwise noted. Tutor.com also has a SkillCenter Resource Library offering educational resources, worksheets, videos, websites and career help. Accessing these resources does not count against tutoring hours and is also available 24/7. Please visit the APUS Library and search for 'Tutor' to create an account.

Late Assignments

- Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. The due date for each assignment is listed under each Assignment.
- Generally speaking, late work may result in a deduction up to 15% of the grade for each day late, not to exceed 5 days.
- As a working adult I know your time is limited and often out of your control. Faculty may be more flexible if they know ahead of time of any potential late assignments.

Turn It In

- Faculty may require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. In some cases professors may require students to use Turnitin.com. This is automatically processed through the Assignments area of the course.

Academic Dishonesty

- Academic Dishonesty incorporates more than plagiarism, which is using the work of others without citation. Academic dishonesty includes any use of content purchased or retrieved from web services such as CourseHero.com. Additionally, allowing your work to be placed on such web services is academic dishonesty, as it is enabling the dishonesty of others. The copy and pasting of content from any web page, without citation as a direct quote, is academic dishonesty. When in doubt, do not copy/paste, and always cite.

Submission Guidelines

- Some assignments may have very specific requirements for formatting (such as font, margins, etc) and submission file type (such as .docx, .pdf, etc) See the assignment instructions for details. In general, standard file types such as those associated with Microsoft Office are preferred, unless otherwise specified.

Disclaimer Statement

- Course content may vary from the outline to meet the needs of this particular group.

Communicating on the Forum

- Forums are the heart of the interaction in this course. The more engaged and lively the exchanges, the more interesting and fun the course will be. Only substantive comments will receive credit. Although there is a final posting time after which the instructor will grade comments, it is not sufficient to wait until the last day to contribute your comments/questions on the forum. The purpose of the forums is to actively participate in an on-going discussion about the assigned content.
- "Substantive" means comments that contribute something new and hopefully important to the discussion. Thus a message that simply says "I agree" is not substantive. A substantive comment contributes a new idea or perspective, a good follow-up question to a point made, offers a response to a question, provides an example or illustration of a key point, points out an inconsistency in an argument, etc.
- As a class, if we run into conflicting view points, we must respect each individual's own opinion. Hateful and hurtful comments towards other individuals, students, groups, peoples, and/or societies will not be tolerated.

Identity Verification & Live Proctoring

- Faculty may require students to provide proof of identity when submitting assignments or completing assessments in this course. Verification may be in the form of a photograph and/or video of the student's face together with a valid photo ID, depending on the assignment format.
- Faculty may require live proctoring when completing assessments in this course. Proctoring may include identity verification and continuous monitoring of the student by webcam and microphone during testing.

University Policies

Student Handbook

- Drop/Withdrawal policy
- Extension Requests
- Academic Probation
- Appeals
- Disability Accommodations

The mission of American Public University System is to provide high quality higher education with emphasis on educating the nation's military and public service communities by offering respected, relevant, accessible, affordable, and student-focused online programs that prepare students for service and leadership in a diverse, global society.